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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/029,580	12/20/2001	Jason F. Hunzinger	09752-147001	4973
27572	7590	11/15/2005	EXAMINER	
HARNESS, DICKEY & PIERCE, P.L.C.			FERGUSON, KEITH	
P.O. BOX 828			ART UNIT	
BLOOMFIELD HILLS, MI 48303			PAPER NUMBER	

2683

DATE MAILED: 11/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/029,580

Applicant(s)

HUNZINGER, JASON F.

Examiner

Keith T. Ferguson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 17 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-57 is/are pending in the application.
- 4a) Of the above claim(s) 11-20 and 30-51 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10, 21-30 and 52-57 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-4, 10, 21-24, 30 and 52-57 are rejected under 35 U.S.C. 102(e) as being anticipated by Fattouche, newly recited reference

The claimed invention reads on Fattouche as follows:

Regarding claims 1, 2, 10, 21, 22, 30, 52-54, and 55-57, Fattouche discloses a method (fig. 10) tracking earliest pilot phase offsets for geo-location determination (col. 34 line 25 through col. 35 line 22) comprising: determining with a cellular

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telephone (CT), search window limitations for one or more base station sectors (base station pilots) (col. 34 line 25 through col. 35 line 22) due to mobile station dynamics (delay offset) (col. 34 line 25 through col. 35 line 22); and searching for earliest pilot phase offsets of the sectors using the determined search window (col. 34 line 25 through col. 35 line 22).

Regarding claims 10 and 30, Fattouche further discloses using results of phase measurement in position location algorithms (TOA or TDOA) (abstract and col. 34 line 25 through col. 35 line 22), and one or more base stations (201), serving a cell divided into one or more sectors (fig. 2).

Regarding claims 3,4,23 and 24, Fattouche discloses speed base factor (col. 31 lines 33-47).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 5-7 and 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fattouche in view of Kim et al..

Regarding claims 5 and 25, Fattouche discloses a method/system as discussed supra in claims 1 and 21 above. Fattouche differs from claims 5 and 25 of the present invention in that it does not disclose setting the search window size asymmetrically from an early and a late side. Kim et al. teaches a tracking circuit within a mobile telephone for setting the search window size asymmetrically from an early and a late side for tracking a received communication signal (col. 1 lines 6-12, col. 2 lines 15-35 and fig. 4). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Fattouche method/system with setting the search window size asymmetrically from an early and a late side in order for the wireless system to provide signals to the cellular telephone so that the cellular telephone can determine its position, as taught by Kim et al..

Regarding claims 6, 7, 26 and 27, Fattouche discloses a method/system as discussed supra in claims 1 and 21 above. Fattouche differs from claims 6, 7, 26 and 27 of the present invention in that it does not disclose setting an early side of the search window based on cell size and speed of a mobile station and setting a later side of the search window based on a speed of a mobile station. Kim et al. teaches system wherein a tracking circuit within a mobile telephone for setting the search window size asymmetrically from an early and a late side for tracking a received communication signal (col. 1 lines 6-12, col. 2 lines 15-35 and fig. 4), setting an early side of the search window based on cell size (signal to noise ratio by M) and speed (velocity) of a mobile station (M) (col. 3 lines 14-56 and col. 5 line 54 through col. 6 line 63), and setting a later side of the search window based on a speed (velocity) of a mobile station (col. 3 lines 14-56 and col. 5 line 54 through col. 6 line 63). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Fattouche method/system with setting an early side of the search window based on cell size and speed of a mobile station and setting a later side of the search window based on a speed of a mobile station in order for the system to communicate with the cellular telephone and for the cellular telephone to determine its location base on the speed of the cellular

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telephone and the time of arrival of pilot offsets of nearby base station, as taught by Kim et al..

6. Claims 8,9,28 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fattouche in view of Leblanc et al..

Regarding claims 8,9,28 and 29, Fattouche discloses a method/system as discussed supra in claims 1 and 21 above. Fattouche differs from claims 8,9,28 and 29 of the present invention in that it does not disclose transmitting cell size based limitations in a overhead to a mobile station. Leblanc et al. teaches transmitting cell size based limitations in a overhead message (delay elements which contain omniscell sizes and radius) to a mobile station (col. 24 lines 54-67 and col. 35 line 11 through col. 36 line 34). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Fattouche with transmitting cell size based limitations in a overhead to a mobile station in order for the system to provide the cellular telephone nearby base station pilot signals so that the cellular telephone could determine its position, as taught by Leblanc et al..

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Keith T. Ferguson whose telephone number is (571) 272-7865. The examiner can normally be reached on 6:30am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on (571) 272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Keith Ferguson
Art Unit 2683
October 7, 2005

KEITH FERGUSON
PRIMARY EXAMINER

Keith Ferguson